

FIG. 1A

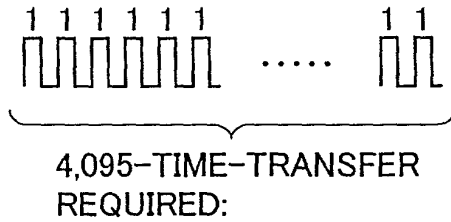
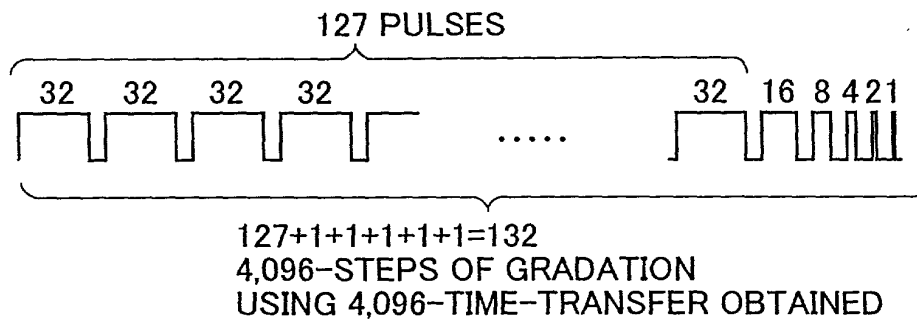
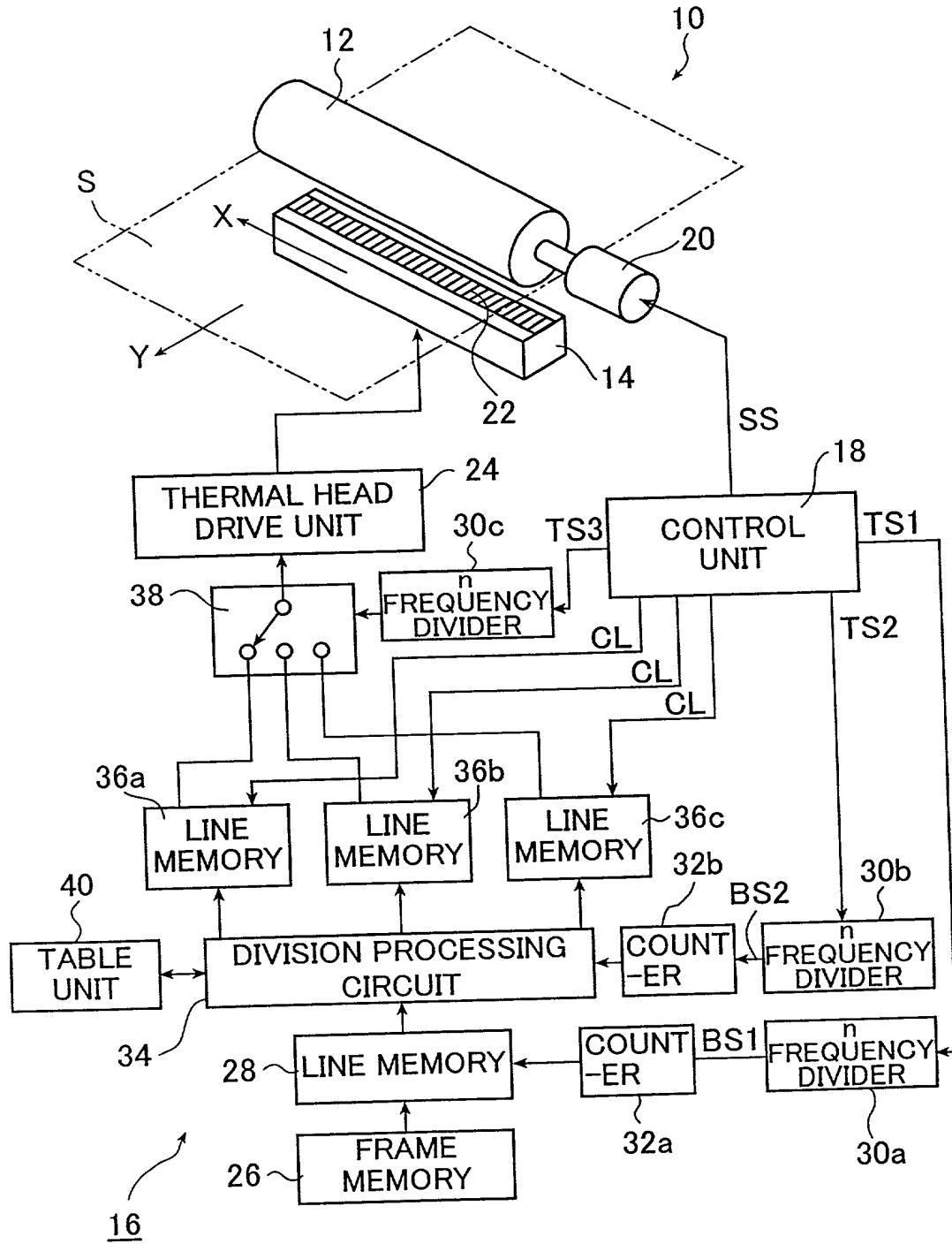


FIG. 1B



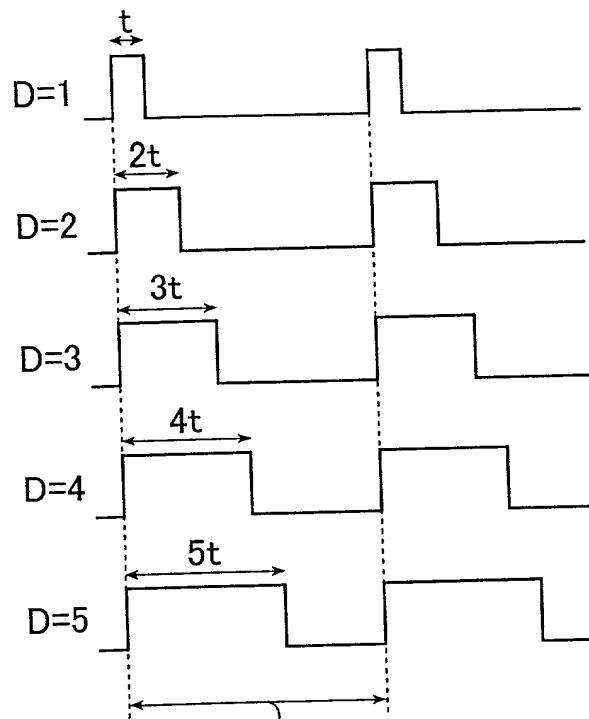
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FIG. 2



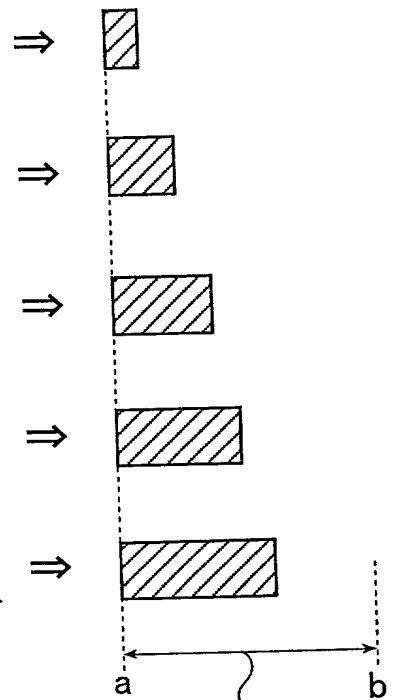
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FIG. 3A



SINGLE PIXEL WIDTH IN
 TRANSFER DIRECTION

FIG. 3B



SINGLE PIXEL WIDTH IN
 TRANSFER DIRECTION

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FIG. 4 (TABLE 1)

| |
|--|
| $\text{"width 32"} \times 127 + \text{"width 16"} + \text{"width 8"} + \text{"width 4"} + \text{"width 2"} + \text{"width 1"}$ (132 steps of dispersion, 132 pulse transfers) |
| $\text{"width 16"} \times 225 + \text{"width 8"} + \text{"width 4"} + \text{"width 2"} + \text{"width 1"}$ (259 steps of dispersion, 259 pulse transfers) |
| $\text{"width 8"} \times 511 + \text{"width 4"} + \text{"width 2"} + \text{"width 1"}$ (514 steps of dispersion, 514 pulse transfers) |

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FIG. 5(TABLE 2)

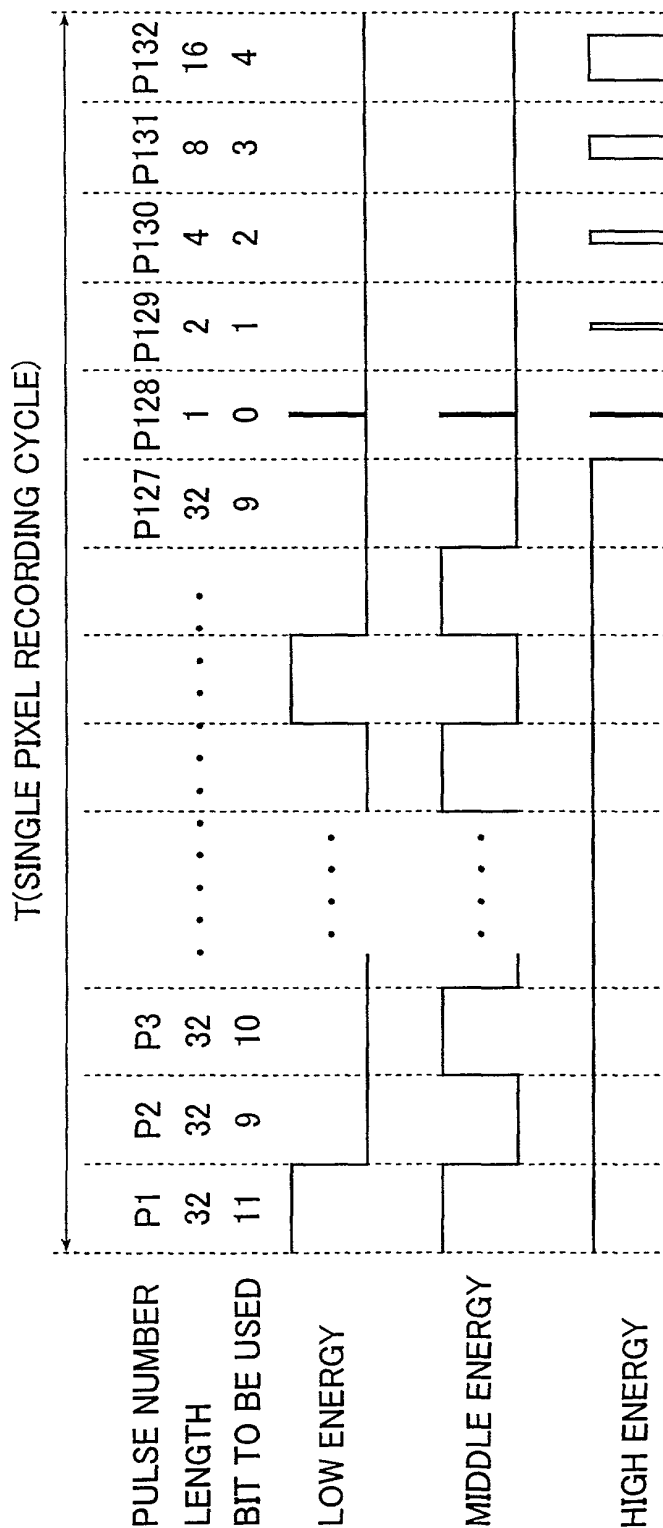


FIG. 6 (TABLE 3)

| BIT TO BE USED : 0~11 | | DATA LEVEL 1027 | | | | | | | | | | | | | | | | | |
|-----------------------|------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DISPERSION | PIXEL POSITION (0~191) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 0 | 0 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 5 | 11 | 8 | 11 | 10 | 11 | 10 | 11 | 10 |
| 1 | 1 | 10 | 11 | 7 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| 2 | 2 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 |
| 3 | 3 | 9 | 11 | 10 | 11 | 6 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| 4 | 4 | 11 | 9 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 |
| 5 | 5 | 10 | 11 | 8 | 11 | 10 | 11 | 7 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| 6 | 6 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 |
| 7 | 7 | 8 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| 8 | 8 | 11 | 7 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 |
| 9 | 9 | 10 | 11 | 8 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 7 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| 10 | 10 | 11 | 10 | 11 | 6 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 |
| 11 | 11 | 8 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ |
| 125 | 125 | 10 | 10 | 11 | 9 | 11 | 10 | 11 | 7 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 |
| 126 | 126 | 11 | 11 | 10 | 11 | 9 | 11 | 10 | 11 | 8 | 11 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 11 |
| 127 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 128 | 128 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 129 | 129 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 130 | 130 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 131 | 131 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

FIG. 7 (TABLE 4)

132 DISPERSION 16×127+1+2+4+8

DATA LEVEL 1027

| DISPERSION NUMBER OF DATA TO BE RECORDED (0~131) | PULSE WIDTH | PIXEL POSITION(0~191) | | | | | | | | | | | | | | | | | | | NUMBER OF ON- PULSES AT EACH TIME |
|--|----------------|-----------------------|----|----|----|---|----|----|----|----|----|----|----|------|------|------|------|------|------|------|---|
| | | COMMAND VALUE | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1027 | 1027 | 1027 | 1027 | 1027 | 1027 | 1027 | |
| 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| 1 | 32 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 48 |
| 2 | 32 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 48 |
| 3 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 49 |
| 4 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 49 |
| 5 | 32 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 47 |
| 6 | 32 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 49 |
| 7 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 49 |
| 8 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 48 |
| 9 | 32 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 48 |
| 10 | 32 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 49 |
| 11 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 49 |
| : | : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | : |
| 125 | 32 | 32 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 48 |
| 126 | 32 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 32 | 49 |
| 127 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 193 |
| 128 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 193 |
| 129 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 131 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |